

# R & D NEWS

## High Horsepower

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Though production will not begin until next summer, the new engine was premiered in October at the AMC Metal Mining Show in Las Vegas. It is scheduled for showing in February, 1966 at the Sand and Gravel Show in Chicago.

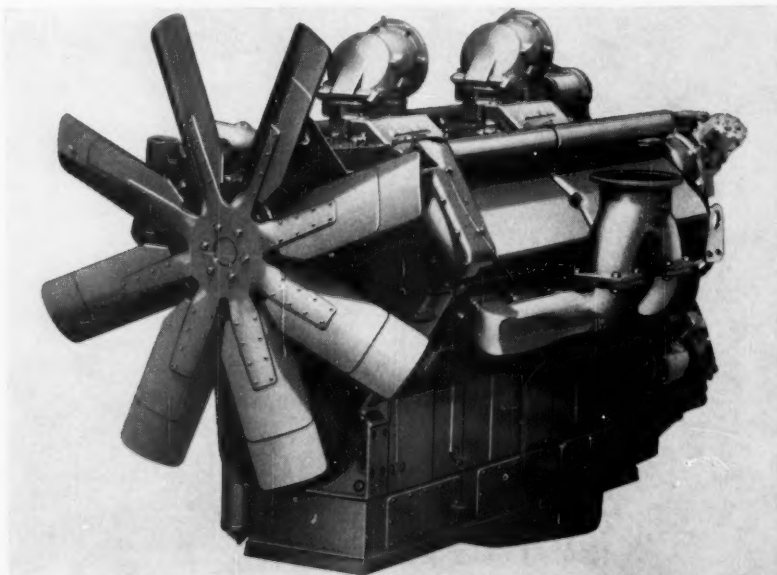
GM engineers believe their high power engine, designed primarily for heavy duty construction equipment, has a decided military application. At the moment, primary application for the engine will be off-road vehicles in the 85-100 ton range. Such a vehicle was displayed at the Metal Mining Show. Other off-road equipment may be designed to take full advantage of the increased horsepower available in the 12V-149.

GM believes its high power engine has other applications that would fit both commercial and military requirements. Example: In the marine market, big engines currently are required to power dredges, large fishing boats, tow boats, and tug boats. In the generator market, engines producing over 500 KW are required for off-line sets and standby sets. In the petroleum market, present and future requirements for both off-shore and deep well drilling, point to a demand for engines producing over 500 HP. **USMC**

### Technical Data

Horsepower	800
Governed RPM	1900
Max. Torque @ RPM	2400 @ 1300
No. of Cylinders	12
Bore and Stroke	5 3/4 x 5 3/4
Displ./Cylinder	149 cu. in.
Compression Ratio	19:1
Operating Cycle	2
Weight (Est.)	7200
Angle of V	63 1/2°
Rotation	R or L
B.M.E.P.	93.2
Piston Speed	1820'/min.

General Motors new  
12-cylinder power plant



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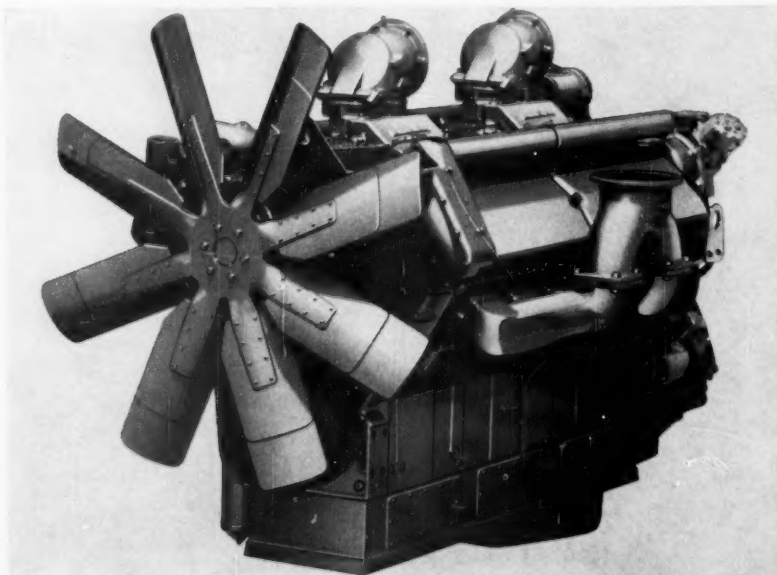
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